

6

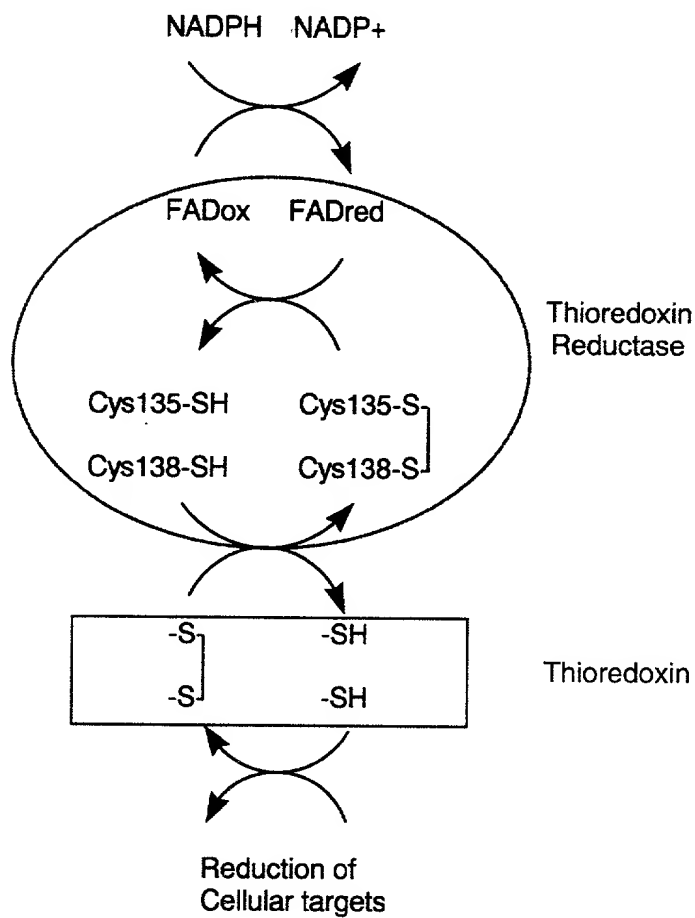


Fig. 1

09825212.012002

Fig. 2a

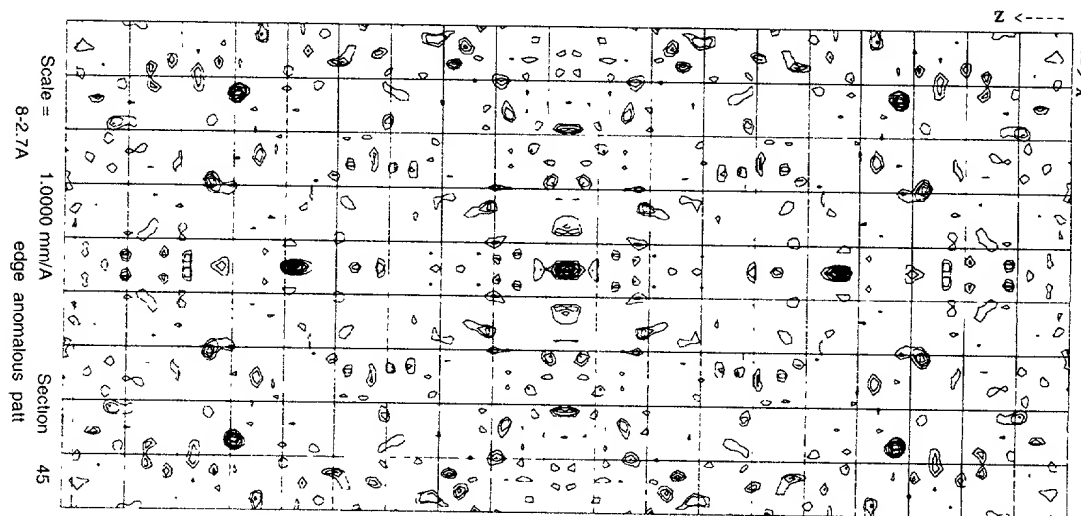
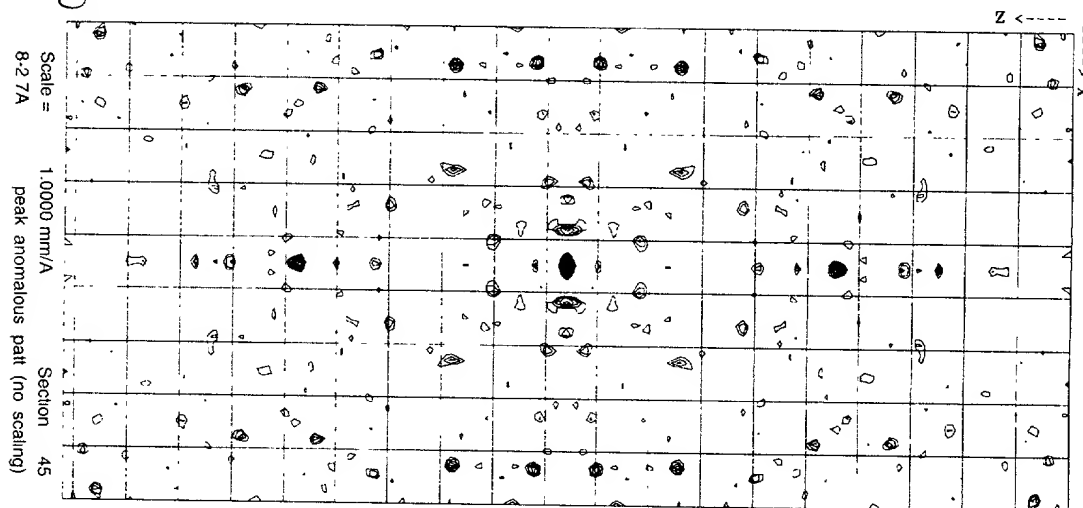


Fig. 2b



09825212 04 2001

3/15

Fig. 3a

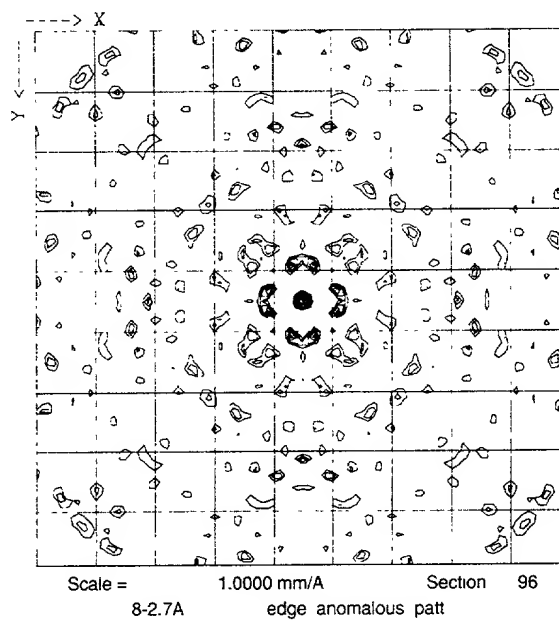
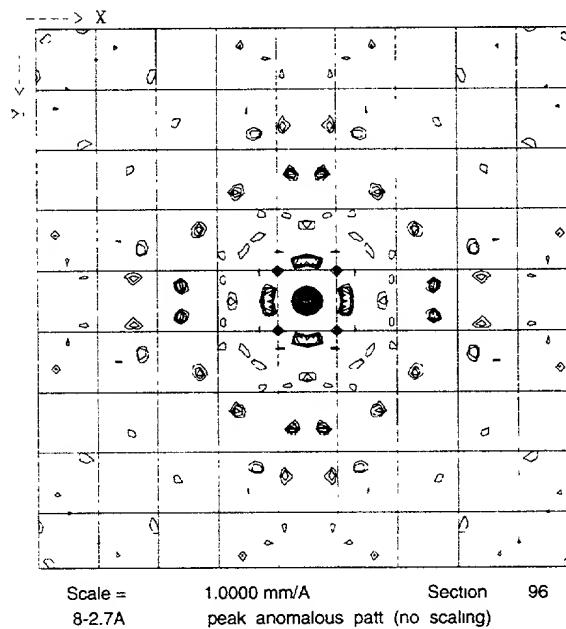
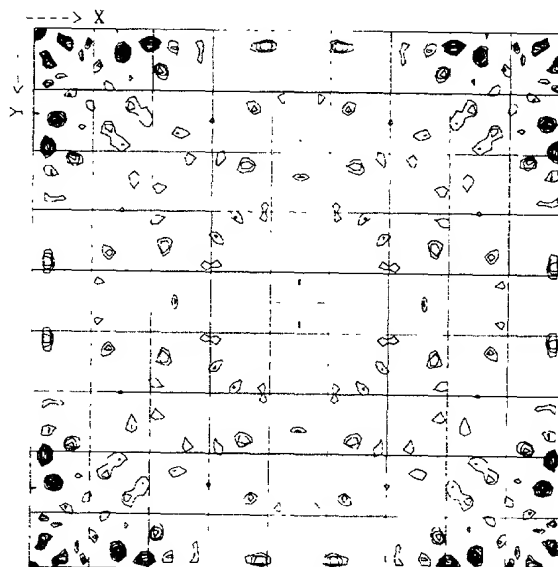
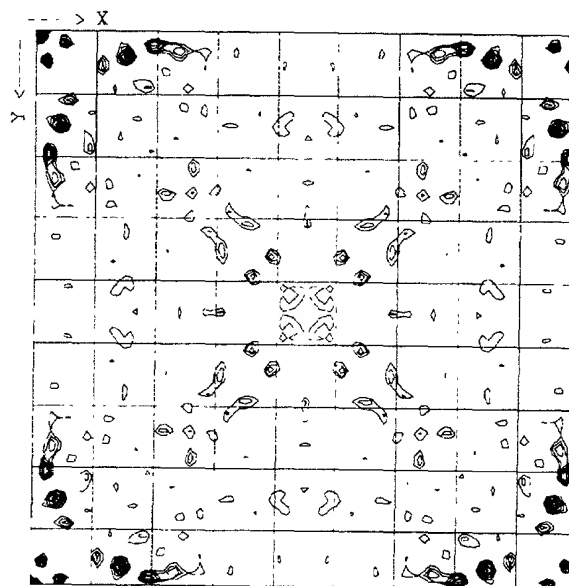


Fig. 3b



4/15

Fig. 4



5/15

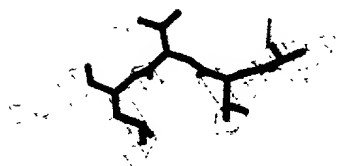


Fig. 5a

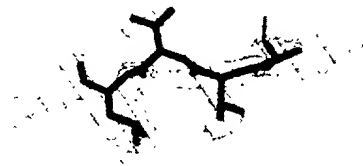


Fig. 5b

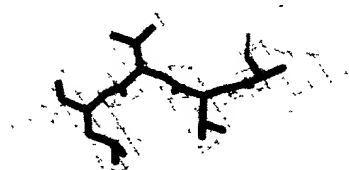


Fig. 5c



Fig. 5d

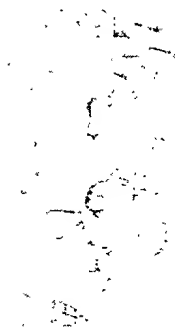


Fig. 6a

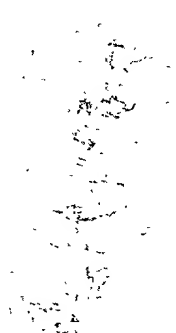


Fig. 6b

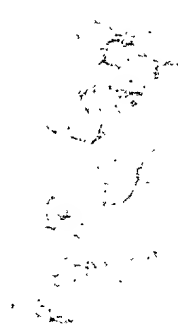


Fig. 6c

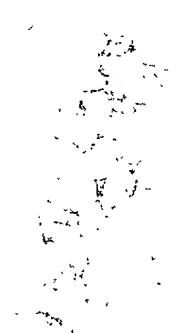


Fig. 6d

09825212.012902

Applicant(s) Timothy E Benson

Serial No. 09/825,212

Filed: April 3, 2001

Docket 00032.US1

Sheet 6 of 15

6/15

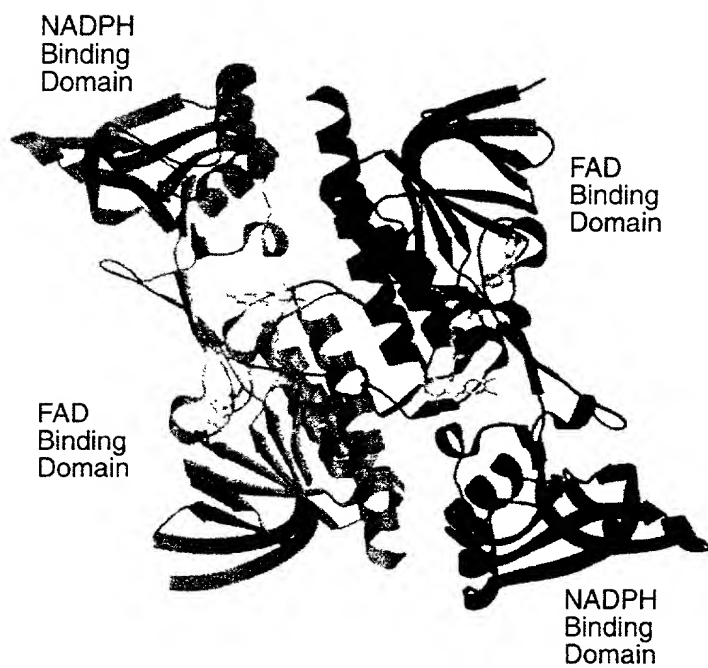


Fig. 7

Fig. 8a

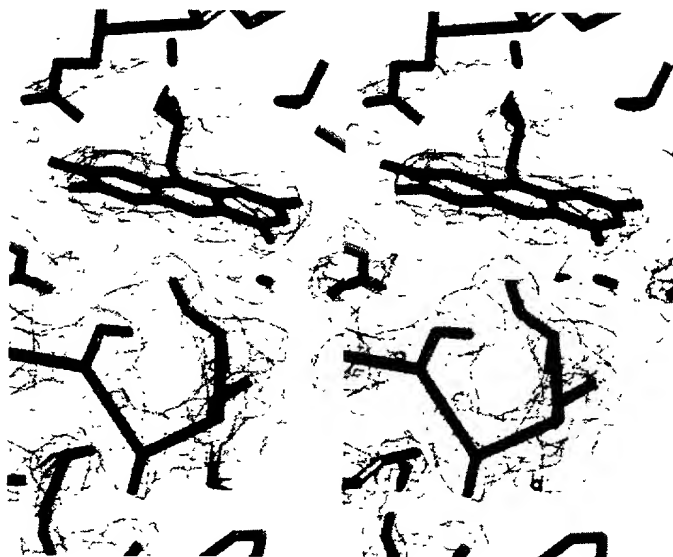
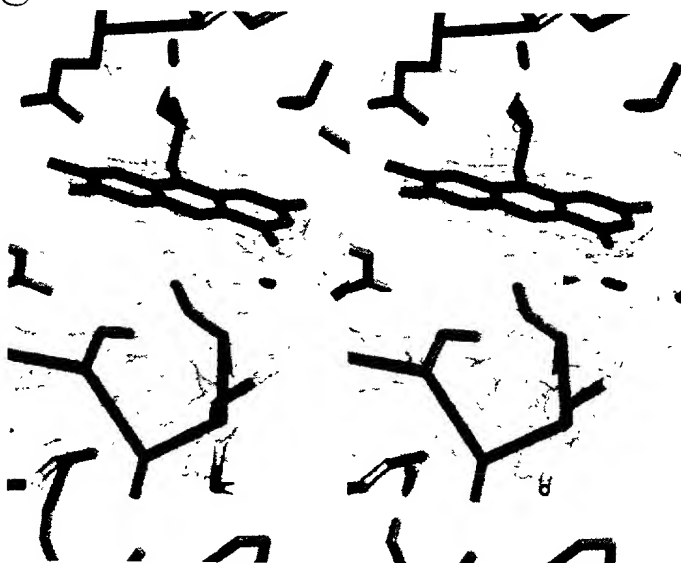


Fig. 8b



09825212.012002

Applicant(s) Timothy E. Benson

Serial No.: 09/825,212

Filed: April 3, 2001

Docket: 00032.US1

Sheet 8 of 15

8/15

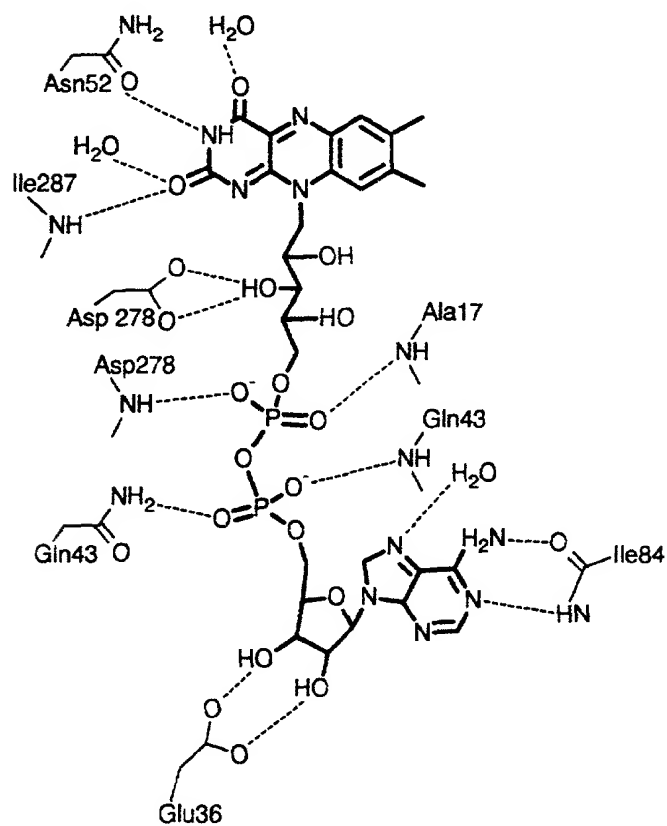


Fig. 9

Applicant(s) Timothy E Benson

Serial No. 09/825,212

Filed: April 3, 2001

Docket: 00032.US1

Sheet 9 of 15

9/15

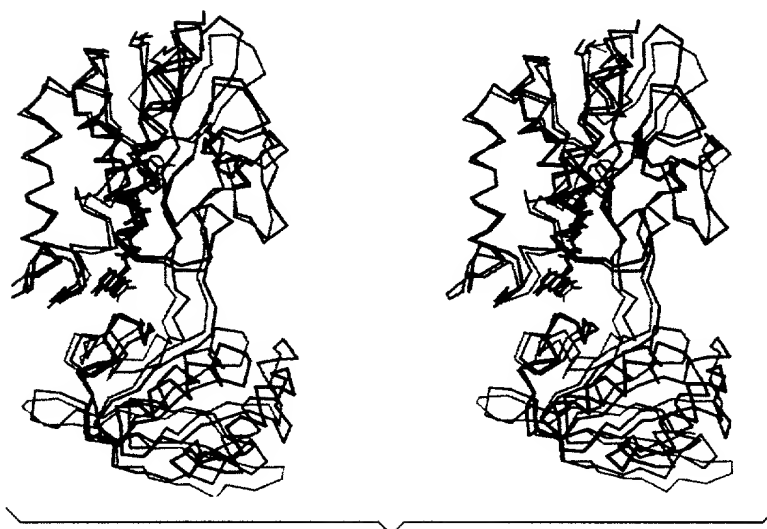


Fig. 10

20020924252860

10/15

SEQ ID NO:2	TrxB_ecoli	1	-GTTKHSKLLILGSGPAGYTAAYAAARANLQPVLI	50
SEQ ID NO:1	TrxB_sa	(1)	MGTEIDFDIAIIGAGPAGMTAAVYASRANLKTVMIERGI	50
			PGQWANTIEV	
	TrxB_ecoli	(50)	ENWPGDPNDLTGPIILMERMEHATKETEII	100
	TrxB_sa	(51)	ENFPFG-FEMFTGPDLSLTMFEHAKKFGAVYQYGDIKSV	100
			EDKGEYKVINFG	
	TrxB_ecoli	(100)	NGEYTCDAIATGASARYLGLPSEEA	150
	TrxB_sa	(100)	NKELTAKAVIATGAIEYKIGVPGEQELGGRGVSYCAV	150
			CDGAFKPKRLF	
	TrxB_ecoli	(150)	VIGGNTAVEEALYLSNIASEVHLTHRRDGFRAEKILIKRLMDKVEN	200
	TrxB_sa	(150)	VIGGDSAVEEGTFTTKFADKVTIVHRRDELRAQRILQDRAFKN	200
			---DKI	
	TrxB_ecoli	(200)	ILHTNRTTEEVGTGDMGVTVGRVLRDTQNSDNI	250
	TrxB_sa	(197)	DFIWSHTTKSINEKDGKVGSVTLTST-KDGSEET	250
			HEADGVFIYIGMKPLT	
	TrxB_ecoli	(250)	AFIEGQ-LLEENGVIKVGSGIHGNATQTSIPGVFAAGDVM	300
	TrxB_sa	(246)	APFKDLGITNDVGIVTK---DD---MTTSVPGIFAAGDVR	300
			DKGLRQIVTAT	
	TrxB_ecoli	(300)	GTGMAALDAERYLDGLADAK-----	329
	TrxB_sa	(292)	GDGSTAAQSAAEYIBHLNDQARSHHHHH	329

Fig. 11

11/15

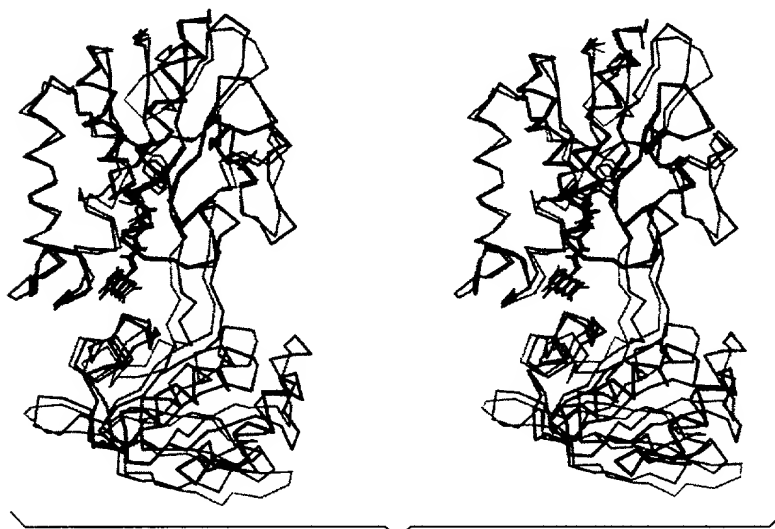


Fig. 12

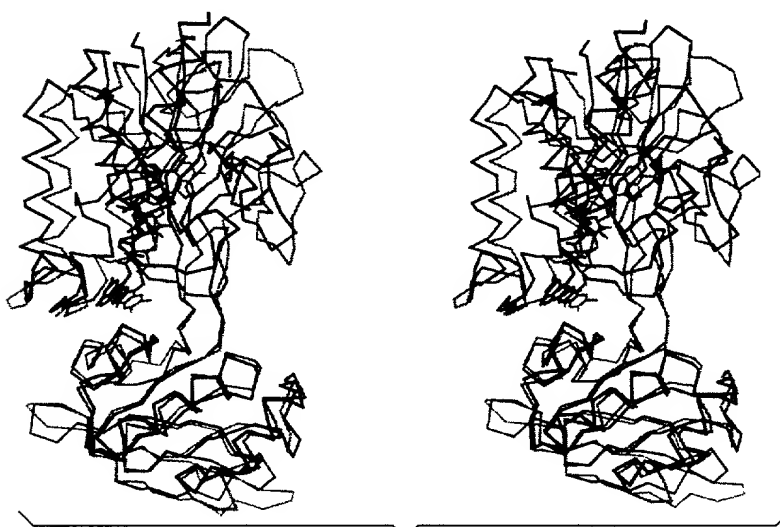


Fig. 13

20021024252860

12/15

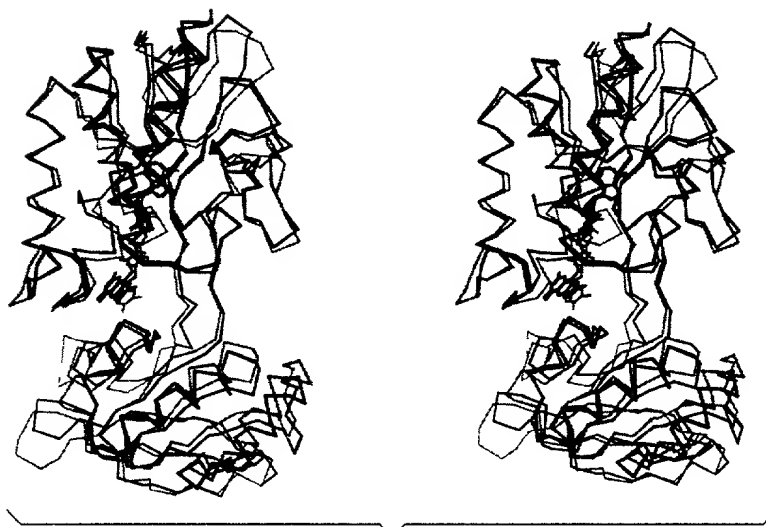


Fig. 14

SEQ ID NO:3	Tr_athaliana	SEQ ID NO:1	TrxB_sa
(1)	MNGLETHNTRLCIVGSGPAHTAAIYAARAELKPLLFEGWMANDIAPGGQ	(1)	-MGT <u>EID</u> -FDIAIGAGPACMTAAVYASRANLKTVMIERG-----IPGGQ
(51)	ITTTTIDVENFPFGPEGILGVLELPDKFRKQSESEFGTTITFTETTKVTFSSK	(51)	ITTTTIDVENFPFGPEGILGVLELPDKFRKQSESEFGTTITFTETTKVTFSSK
(44)	WANTERVENFPFGF-EMITGPPLSTTKMFEHAKKFFGAVYQYGDIKSVEDKGE	(44)	WANTERVENFPFGF-EMITGPPLSTTKMFEHAKKFFGAVYQYGDIKSVEDKGE
(101)	PFKIDFTDSKALADAVILAIGAVAKRLSFVSGEVLGGFWNRGTSACAVC	(101)	PFKIDFTDSKALADAVILAIGAVAKRLSFVSGEVLGGFWNRGTSACAVC
(93)	YKVNFNGNKEHTAKAVILATGAEYKRIKGVPGEQEELGG-----RGVSYCAVC	(93)	YKVNFNGNKEHTAKAVILATGAEYKRIKGVPGEQEELGG-----RGVSYCAVC
(151)	DGAAPIFRNKPLAVIGGDSAMEEANFLTKVSGKVYIIRRRDAFRASIKIM	(151)	DGAAPIFRNKPLAVIGGDSAMEEANFLTKVSGKVYIIRRRDAFRASIKIM
(139)	DGA--FENKRLFVIGGDSANEECTFLT KFA DKVTIVHRRDELRAQHLIS	(139)	DGA--FENKRLFVIGGDSANEECTFLT KFA DKVTIVHRRDELRAQHLIS
(201)	QQRALSNPKIDVIWNSVVEAYGDGERD-VLGGLKVKNVVTGDVSDLKVS	(201)	QQRALSNPKIDVIWNSVVEAYGDGERD-VLGGLKVKNVVTGDVSDLKVS
(187)	QDRAFKNDKIDFIWSHLTKSIN---EKDGKVGSVTLTSTKDGSEETHEAD	(187)	QDRAFKNDKIDFIWSHLTKSIN---EKDGKVGSVTLTSTKDGSEETHEAD
(250)	GLEFFAIGHERPATK-FLDGGVELDSGYAVTKPGTTQTTSVPGWFAAGDVQD	(250)	GLEFFAIGHERPATK-FLDGGVELDSGYAVTKPGTTQTTSVPGWFAAGDVQD
(234)	GVEFIYIGMKPLTAPFKDLGLTND-VGYHVTTKDDMT-TSVPGFFAAGDVRD	(234)	GVEFIYIGMKPLTAPFKDLGLTND-VGYHVTTKDDMT-TSVPGFFAAGDVRD
(299)	KKYRQAFTAAAGTGCMAALDAEHYLQEI GS QEGKSD----	(299)	KKYRQAFTAAAGTGCMAALDAEHYLQEI GS QEGKSD----
(282)	KGLRQIVTATGDGSLAAQSAAEYIEHLNDQARSHHHHHH	(282)	KGLRQIVTATGDGSLAAQSAAEYIEHLNDQARSHHHHHH

Fig. 15

14/15

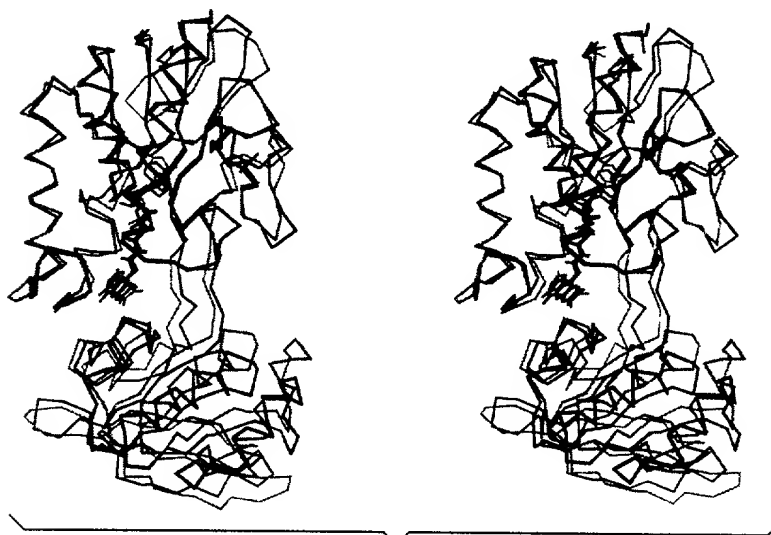


Fig. 16

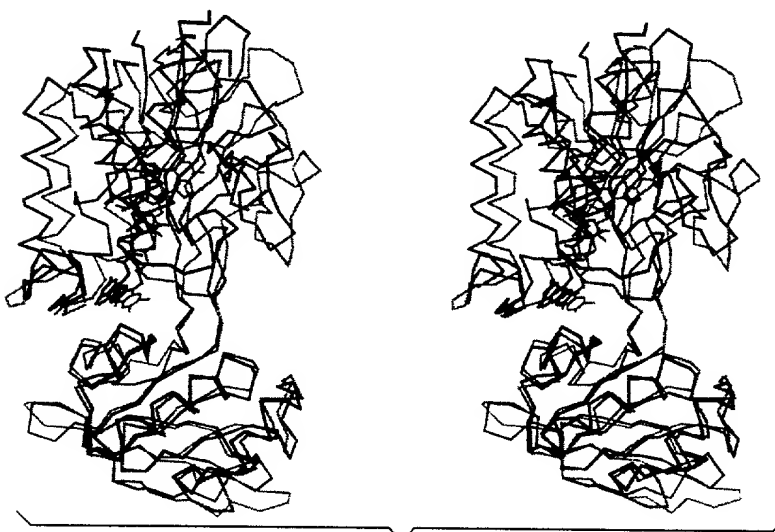
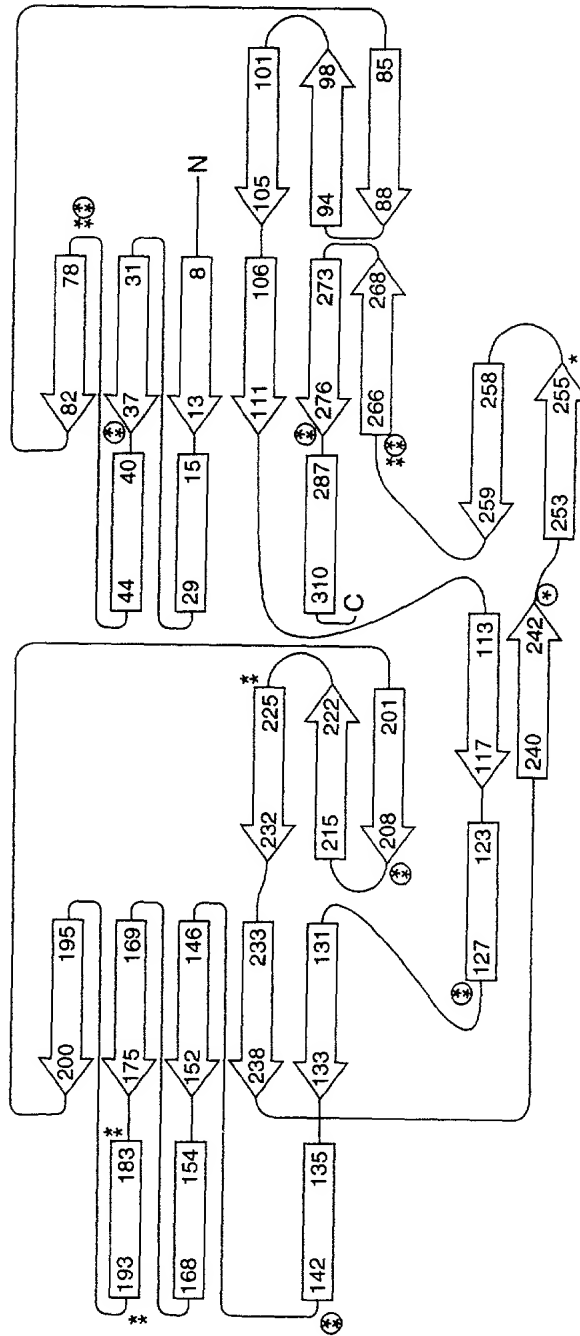


Fig. 17

20027024252860

15/15



E. coli * deletion, ** insertion
A. thaliana ⊙ deletion, ⊕ insertion

Fig. 18